

THE LYCOMING MUSEUM



LYCOMING

A Textron Company

Lycoming has a long and rich history dating back to 1845, when Madame Ellen Curtis Demorest founded the Demorest Manufacturing Company. The company first produced sewing machines, bicycles, typewriters, duplicators, gas irons and printing presses.

In 1907, the company was restructured and named the Lycoming Foundry and Machine Company, focusing primarily on designing and building automobile and truck engines. Twenty years later, Lycoming built its first aircraft engine.

Let's take a look at some highlights of Lycoming's 150-year proud history ...

THE EARLY DAYS ...

In 1910, Lycoming produced its first automobile engine for the Veille Motor Corporation. This engine was so popular that over the next 25 years, Lycoming produced 57 engine models for over 250 different automobiles, including Cord,



*1931 Duesenberg J-299 Phaeton, Le Baron
Lycoming, Model J V-8
Photo courtesy of Ray B. Bowersox*

Auburn, Duesenberg, Locomobile, Paige, Graham, McFarlan and Checker. Additionally, in support of the national war production effort during WWI, the company produced more than 15,000 military truck and ambulance engines.



*1932 Auburn 12-160
Lycoming, Model BB V-12
Photo courtesy of Bruce Earlin*

POWER FOR MANY USES ...

Lycoming engines have provided power for many varied applications. In the air, on land, over the water ... Lycoming was there.

From military to experimental, serious to whimsical, Lycoming has been in the forefront as innovators in power.



Bell Aerosystems Carabao



Curtis Wright 2500 aircar



Airphibian



Whirly-Gigger

By the mid 1960s, every major general aviation manufacturer of piston-powered aircraft was using Lycoming engines.

Normally aspirated, fuel-injected, geared, direct drive and turbocharged, Lycoming has produced engines for virtually every



type of piston-powered aircraft their designers could conceive. No other engine manufacturer captured the whole market as Lycoming did.

Today, that dominant market commitment is recognized around the world.



U. S. Army airboat



U. S. Army PATA test vehicle



*Enstrom
helicopter*

THE WORLD'S ONLY CERTIFIED AEROBATIC ENGINES . . .

Since introducing its first aerobatic engine in 1967, Lycoming remains the only manufacturer of FAA-certificated aerobatic piston engines. Lycoming has been the power behind many World and U.S. National Champion aerobatic pilots. Most precision aerobatic performers and formation teams all use Lycoming engines.



*Patty Wagstaff flies behind an
AERO-540-L1B5 aerobatic
Lycoming engine*

A FULL LINE OF ENGINES . . .

In July, 2001, Lycoming delivered its 300,000th horizontally opposed, piston aircraft engine . . . truly a milestone, and

no small task to achieve it.

Delivering 300,000

engines represents more than one hundred million pounds of metal, four hundred million components,

hundreds of thousands of faithful customers and four generations of dedicated

Lycoming employees. Teamwork.

Today, the Lycoming factory produces more aircraft engines than any other factory in the world. The company's 4-, 6- and 8-cylinder engines have an unequaled track record for consistent reliability, value and proven performance. That reputation didn't happen by chance; it took hard work, total commitment and

dedication to excellence.

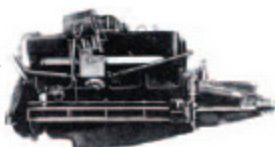
As testament to their durability, performance and reliability,

Lycoming piston engines power more than 70 percent of all new general aviation aircraft produced worldwide.



THE CORD ERA ...

Errett L. Cord purchased the company in 1927, and expanded the business to include designing and manufacturing marine racing engines, industrial motors, as well as venturing into the aviation aircraft engine arena. Lycoming marine engines



won many gold cups during the 1920s and 1930s, and powered the famous Guy Lombardo racing team boats.



1936 Cord 810 Phaeton
Lycoming Model FB V-8
Photo courtesy of Allen E. Light

LYCOMING'S FIRST AIRCRAFT ENGINE: THE R-680 ...

Inspired by Charles Lindbergh's historic solo flight across the Atlantic Ocean, Lycoming introduced its first aircraft engine – the R-680 – in 1929. It was a 9-cylinder 200 horsepower piston radial. More than 25,000 R-680s were built, and powered everything from Stinsons to Stearmans, many of which are still flying today.



Early 1940s ...
R-680 production



ROTARY WING POWER ...

In 1938, Lycoming developed the O-145, a horizontally opposed four-cylinder engine rated at 55 horsepower, and a year later, Igor Sikorsky flew the first successful helicopter, which was powered by a 65-horsepower GO-145. This historic

flight marked the beginning of Lycoming's dominance in piston engine manufacturing, which now includes a complete line of four-, six- and eight-cylinder opposed air-cooled engines. To this day, Lycoming produces the world's only certified piston helicopter engines.



LYCOMING'S ROLE DURING WWII ...

During WWII, Lycoming was Williamsport's largest contributor to the war production effort, concentrating its efforts on building parts and engines for military aircraft and tanks. At its production peak, the factory worked 24 hours a day, building an average of 600 engines a month, plus parts for military aircraft such as the B-29 and P-51 Mustang.



In 1942, the Army Air Corps awarded Lycoming the coveted E-Award ... in recognition of the factory's outstanding contributions to the welfare and security of the citizens of the United States.

Toward the end of World War II, the U.S. Air Force commissioned Lycoming to develop the largest reciprocating engine ever built. It was a 36-cylinder radial engine,

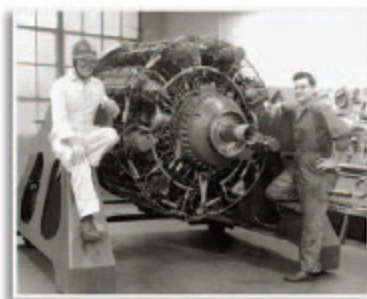
developing 5,000 horsepower.

The displacement was 7,755 cubic inches ... more than 10 times the displacement of Lycoming's largest engine currently in production.

This huge engine was 10 feet long, 5 feet in diameter and weighed 6,050 pounds. With four banks of nine cylinders, this massive engine still holds the record for power and displacement. With the end of WWII in 1945, the military no longer needed an engine of this size, and development of the XR-7755 ended at the prototype stage.



*E-Award presentation
by the Army Air Corps*



XR-7755. To this day, it remains the world's largest piston aircraft engine ever made.



Left: B-29 bomber

*Right: B-36 heavy bomber, scheduled
to be powered by the XR-7755*

EDITOR'S NOTE:

Lycoming's history spans more than 150 years. The company was acquired several times, which resulted in corporate name changes. To avoid confusion in the text of this brochure, we opted to use the name Lycoming when discussing the company's achievements. For historical reference, the dates of acquisition, as well as the resulting name changes, are listed below.

- 1845 – Demorest Manufacturing Company
- 1907 – Lycoming Foundry and Machine Company
- 1920 – Lycoming Manufacturing Company
- 1939 – AVCO Lycoming
- 1986 – Textron purchased AVCO and Lycoming became Textron Lycoming
- 2002 – LYCOMING
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Lycoming is a division of AVCO Corp., a Textron subsidiary

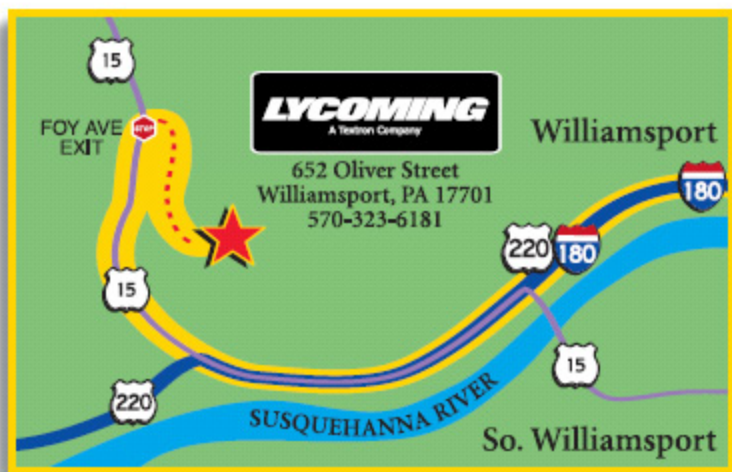
VISIT THE MUSEUM

The next time you are in Williamsport, Pa., we invite you to visit the Lycoming Museum, located inside Lycoming's factory headquarters. The Museum is open to the public, 8:00 a.m. to 4:00 p.m., Monday through Friday. While you are here, you are also welcome to browse through our company store, where you will find clothing and accessories for Lycoming enthusiasts. Mention this brochure, and we will give you a 10% discount off your total store purchases.

Please call ahead to schedule your visit to Lycoming: 570-323-6181. Please see the back of this brochure for directions – as well as a map – to the Museum.

We do hope you have enjoyed reading highlights of Lycoming's proud history. And, we sincerely look forward to your visit.

DIRECTIONS TO THE LYCOMING MUSEUM



1. From I-180W, take the US-15N exit toward MANSFIELD 0.4 miles
2. Merge onto US-15N 0.8 miles
3. Take the FOY AVE/LYCOMING CREEK RD exit 0.3 miles
4. Keep LEFT at the fork in the ramp 0.1 miles
5. At the STOP sign, turn RIGHT onto FOY AVE/HIGH ST 0.0 miles
6. Merge onto HIGH ST 0.2 miles
7. At the traffic light, turn right onto OLIVER STREET 0.0 miles
8. Welcome to Lycoming! 0.0 miles

There are a limited number of visitor parking spots in front of the factory.
Additional parking spots are available in the lot across the street.
Please note: Registration is required when entering the building.

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Lycoming Engines • 652 Oliver Street • Williamsport, PA 17701
570-323-6181
www.lycomingtextron.com